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IMAGERY

ANALYSIS



STAFF

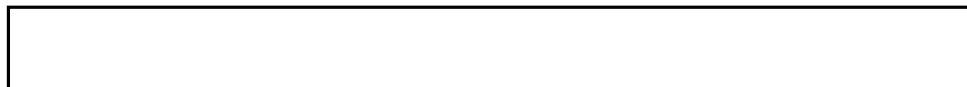
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PHOTOGRAPHIC INTELLIGENCE REPORT

VITAL RECORDS COPY

ZHDANOV SHIPYARD 190

LENINGRAD, USSR



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Declass Review by NIMA/DOD

CIA/PIR 77075

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DATE APRIL 1967

COPY 106

PAGES 9

GROUP 1  
Excluded from automatic  
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ZHDANOV SHIPYARD 190

LENINGRAD, USSR

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SHIPYARD : ZHDANOV SHIPYARD 190  
LOCATION : LENINGRAD, USSR  
GEO COORDS: 59-53N 030-14E

KEY TO ANNOTATIONS ON FIGURE 1

1. Possible KRESTA Class DLG(M) - formerly described as a new class DLG - (LOA approx 510').  
Visible topside detail and hull outline appear similar to the vessel observed in this position on [redacted] (see annotation 1, [redacted] See also annotation 1, [redacted]
2. Possible KASHIN Class DLG (LOA approx 470').  
Topside detail and proportions aided in the identification of this vessel. A light-toned area, probably equating to the area between the after exhaust stacks, can be seen. This position was unoccupied on [redacted] (annotation 2, [redacted]; however, it was occupied by a possible KASHIN Class DLG on [redacted] (annotation 2, [redacted].
3. Possible KRUPNYY Class DDGS (LOA approx 450').  
Topside detail and proportions aided in the identification of this vessel. This position was previously occupied by a possible KASHIN Class DLG (annotation 3, [redacted] A possible KRUPNYY Class was seen at that time at annotation 5, [redacted]
4. Possible KRESTA Class DLG(M) alongside quay (LOA approx 510').  
Hull shape and visible topside detail are similar to that of the first KRESTA Class observed on [redacted] (see annotation 1, [redacted] This is the first [redacted] sighting of the second unit of this new class in the water. The stern is nearly obscured by a shadow cast by a quayside crane. A possible KASHIN Class DLG was observed in this position on [redacted] (annotation 4, [redacted]
5. Possible VYTEGRALES Class Timber Carrier alongside quay (LOA approx 400').  
See annotation 7, [redacted]
6. Unidentified merchant ship alongside quay (measurements undetermined).  
See annotation 8, [redacted]
7. Possible OSKOL Class ASL Med-moored to quay (LOA approx 290').  
The superstructure of this ship is located just abaft a possible well deck amidships. See annotation 11, [redacted]

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8. Possible old merchant ship [redacted] (measurements undetermined).

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See annotation 10, [redacted]

9. Probable scientific research ships [redacted] (LOA of each approx 310').

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These two vessels have previously been moored on the starboard side of the [redacted]. See annotation 9, [redacted]

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10. Possible new construction on center building way (measurements undetermined).

See annotation 14, [redacted]

11. Unidentified merchant ship on southernmost building way (apparent LOA approx 400').

Three holds forward, a raised superstructure, and a hold aft are clearly visible. The hull observed on this building way on [redacted] (annotation 15, [redacted] (annotation 14, [redacted]

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[redacted] annotation 16, [redacted] does not appear to be the same hull observed on this imagery. Although the visible hull observed on the above missions also measured roughly 400 feet in length, the bow section was not in place, indicating that it was a significantly longer vessel under construction. The apparent way utilization of the outside construction area is summarized in Appendix II.

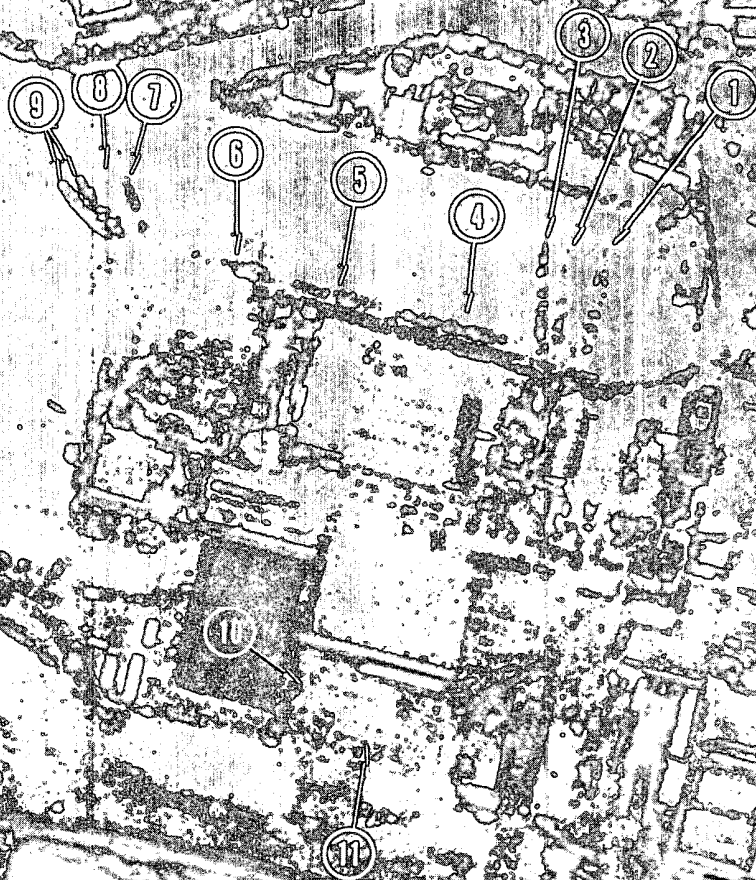
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ZHDANOV SHIPYARD 190  
LENINGRAD, USSR  
59-53N 030-14E



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FIGURE 1

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## APPENDIX I

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Non-satellite photography (dated [redacted] of Zhdanov Shipyard 190 provided a good oblique view of the shipyard facilities and vessels. Also included is a stereogram of the same imagery to aid in establishing relative object position (Figure 2).

## KEY TO ANNOTATIONS ON FIGURE 3

The annotations on Figure 3 represent the approximate locations indicated by the corresponding number annotations on [redacted] (Figure 1).

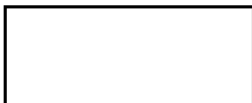
1. Probable KRESTA Class DLG(M).
2. Probable KASHIN Class DLG.
3. Unidentified large combatant.  
This vessel does not appear to have the same after configuration as the KASHIN Class or KRESTA Class alongside. Only one mast can be seen on this vessel.
4. KRESTA Class DLG(M) alongside quay.  
The visible topside details of this ship conform to the major characteristics of the KRESTA Class DLG(M) described in NRTSC 125/66-S and DI 58(N)38/66. It cannot be ascertained from this imagery whether or not this ship is fitted with stack(s)/mack(s). This imagery also does not permit the identification of missile launchers.
5. Probable VYTEGRALES Class Timber Carrier alongside quay.
6. Probable merchant ship.  
After mast and stern portion of this vessel are visible.
7. Quay area obscured by overhead bridge crane.  
There appears to be no shipbuilding activity on the ways beneath the overhead bridge crane.
8. Unidentified vessel Med-moored to quay.
9. Scientific research ships [redacted] Med-moored to end of quay.
10. Probable center section of new unidentified construction on center building way.  
The outer sides and three probable transverse bulkheads are visible. When scaled from the LOA of the probable VYTEGRALES Class on the southernmost way the length of this section measures roughly 90 feet.

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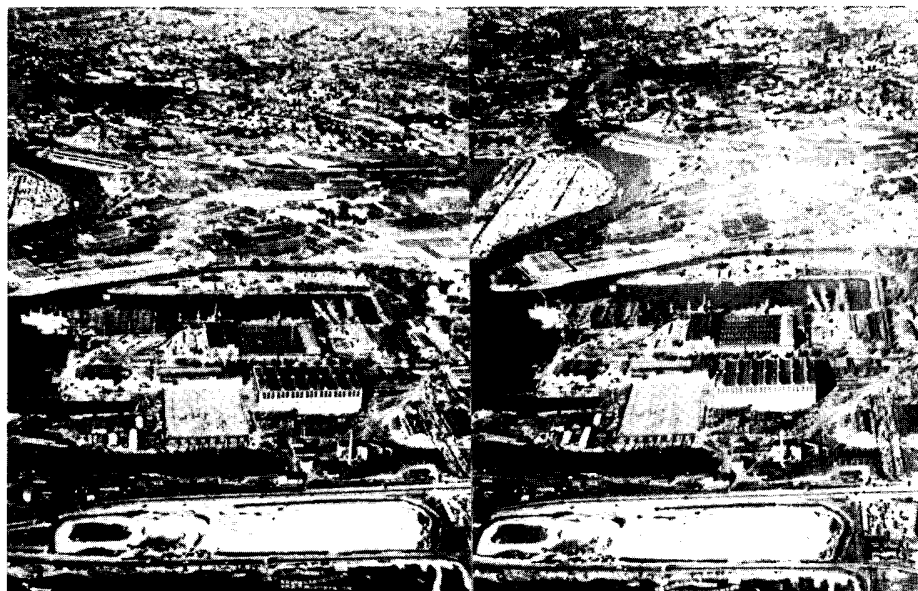
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11. Probable VYTEGRALES Class Timber Carrier on the southernmost building way. Raised forecastle and fantail, three holds forward, and one hold aft of superstructure placed abaft amidships are visible features of this ship.

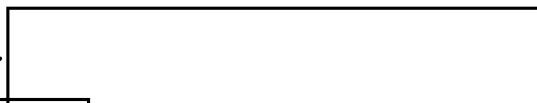


Stereogram of Zhdanov Shipyard 190 looking northeast.  
Figure 2.

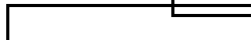


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ZHDANOV SHIPYARD 190

LENINGRAD, USSR

59-53N 030-14E

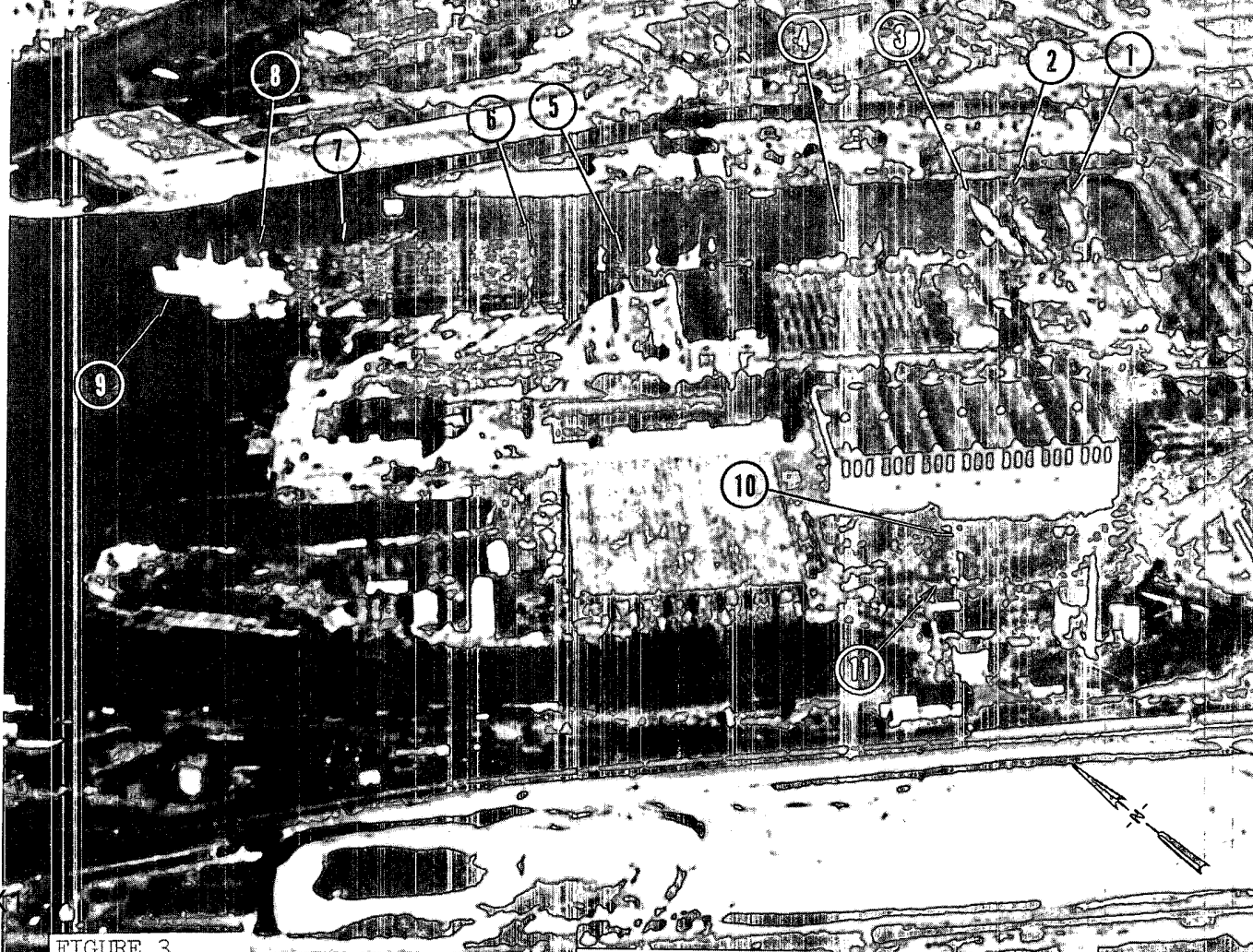


FIGURE 3

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# APPENDIX II

Construction activity on the outside building ways at Zhdanov Shipyard has been imaged on satellite, aerial, and ground photography [REDACTED]

[REDACTED] (see annotation 16, [REDACTED] CIA/PIR-77015) a large hull was observed under construction on the southernmost outside building way (position 64 south) at Zhdanov Shipyard. The hull was not identified and its measurements were undetermined due to its early stage of construction. However, the overall length of the vessel when later completed would appear to be significantly longer than 400 feet - the length of the VYTEGRALES Class Timber Carriers produced at this shipyard (see Figure 4). An empty hull form was present on way 64c [REDACTED]



Figure 4. VYTEGRALES Class Timber Carrier. [REDACTED]

Ground photography of 29-30 July 1966 again indicated the presence of a large hull on the southernmost way (see Figure 5). The hull at that time had the bow and stern in place as well as a portion of the superstructure forward of amidships. The stern was observed to form a conical shape that extended from a knuckle to the deckline. When compared to the very rounded stern of the

VYTEGRALES Class (see Figure 4) this stern is quite different. The hull lines of this ship do not appear to be those of a merchant ship. Open staging surrounds an apparently empty center building way (64c) on 29-30 July 1966.

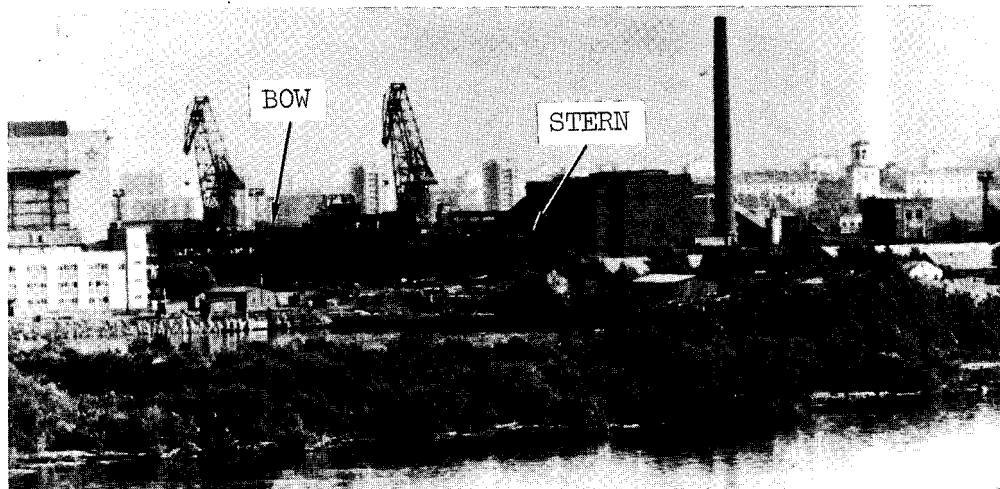


Figure 5. Outside building ways 29-30 July 1966.

Low oblique aerial coverage of Zhdanov Shipyard was taken approximately one month after the ground photography of 29-30 July 1966 (see Figures 2 and 3). This photography revealed the presence of a probable VYTEGRALES Class Timber Carrier on the southernmost way. The hull and superstructure appeared nearly complete with the exception of the center mast and the funnel which were not in place. Since the large hull that previously occupied this way was not observed in the photography there is the possibility that it was moved into the large construction hall. The merchant hull probably could not have been completed in approximately one month's time to the degree that it appeared completed, possibly indicating it was moved from the construction hall to the outside way. A probable center section for a new vessel under construction occupies the center building way in late

Ground photography of 9 September 1966 (Figure 6) confirms the presence of a VYTEGRALES Class Timber Carrier on way 64s. Clearly visible on this ground photography are the three masts, the rounded stern containing two rows of white lettering, the raised fantail and forecastle, and the after edge of the superstructure corresponding to the features of the VYTEGRALES Class. Unidentified vertical imagery paralleling the fore and aft axis of the VYTEGRALES Class is present on the adjacent building way (64c) on 9 September.

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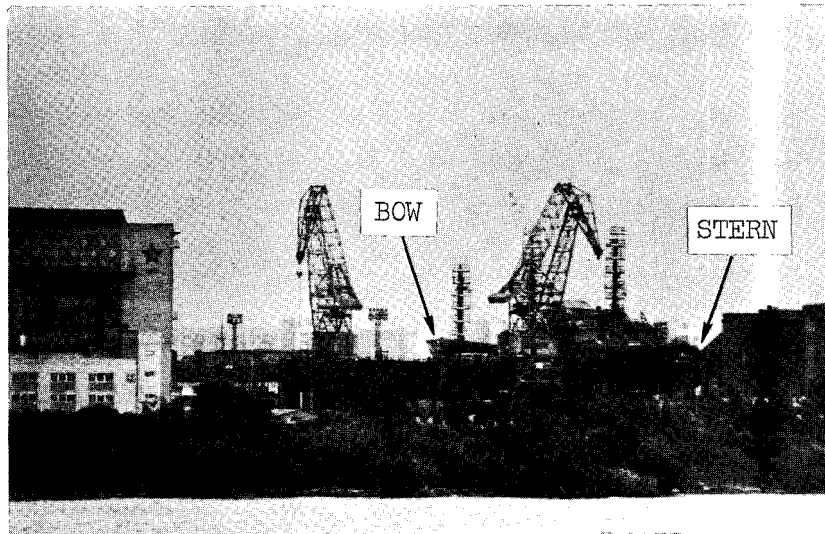


Figure 6. Outside building ways 9 Sep 66. CIA 1159760

The table below summarizes the activity noted on the outside building ways at Zhdanov Shipyard from [REDACTED]

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REFERENCE

DOCUMENTS

CIA/PIR-77050, Zhdanov Shipyard 190, Leningrad, USSR,

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CIA/PIR-77051, Zhdanov Shipyard 190, Leningrad, USSR,

TOP SECRET

CIA/PIR-77074, Zhdanov Shipyard 190, Leningrad, USSR,

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NAVRECONTECHSUPPCEN 125/66-S, USSR "Kresta" Class DLG (or DLGM) -  
Provisional Outline Arrangement (C), November 1966 (SECRET)

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